

**AMENDMENTS TO THE CLAIMS**

The following listing of the claims replaces all prior versions and listing of the claims in relation to the present patent application.

**Listing of the Claims**

1-10. (cancelled)

11. (previously presented) An electronic system, comprising:

an electronic circuit;

a temperature feedback device having a plurality of conductors and disposed to detect a temperature resulting from heating by an inductor, wherein the temperature feedback device or the plurality of conductors or any combination thereof is disposed within a magnetic field produced by the inductor; and

an interface operable to electrically couple the plurality of conductors to the first electronic circuit to transmit temperature data to the electronic circuit, wherein the interface electrically couples the plurality of conductors to ground through at least one capacitor configured to couple electrical noise produced by the magnetic field to ground.

12. (original) The system as recited in claim 11, wherein the temperature feedback device is a thermocouple.

13. (original) The system as recited in claim 11, comprising an extension cable for coupling the temperature feedback device to the interface, the extension cable comprising a shield conductor surrounding the plurality of conductors, the shield conductor being electrically coupled to ground by the interface.

14. (original) The system as recited in claim 11, wherein the electronic system produces the magnetic field.

15. (original) The system as recited in claim 11, wherein the electronic system produces a radio-frequency electric current.

16-19. (cancelled)

20. (currently amended) An induction heating system ~~electronic device~~, comprising:  
an electronic circuit having an inductor configured to inductively heat a workpiece; and  
a temperature feedback device thermally coupled to the workpiece and disposed within a  
magnetic field produced by the inductor; and  
an interface operable to electrically couple a signal representative of temperature resulting from heating by the inductor from the a temperature feedback device to the electronic circuit, wherein the interface comprises at least one capacitor configured to couple electrical noise transmitted with the signal representative of temperature to ground.

21. (cancelled)

22. (previously presented) The device as recited in claim 21, wherein the temperature feedback device is a thermocouple.

23. (previously presented) The device as recited in claim 20, comprising an extension cable operable to electrically couple the temperature feedback device to the interface, wherein the extension cable comprises a shield conductor surrounding a plurality of conductors operable to transmit the signal representative of temperature from the temperature feedback device to the interface.